

# GENITOURINARY MEDICINE

*Editor:* A Mindel

*President MSSVD:* M Waugh

*Hon Sec MSSVD:* M Godley

*Assistant Editor:* C A Carne

*Assistant Editor, Abstracts:* C Sonnex

G Bird  
L Corey  
R A Coutinho  
B A Evans  
S M Forster  
D J Jeffries  
F Judson  
C J N Lacey

J M A Lange  
A G Lawrence  
A Méheus  
R S Pattman  
R Piot  
M Stanley  
D Taylor-Robinson  
I V D Weller

L Weström  
H Young  
A J Zuckerman  
H zur Hausen

*Editor*  
British Medical Journal

*Technical Editor:* Kenneth Till

This *Journal*, founded by the Medical Society for the Study of the Venereal Diseases, publishes original work on the investigation and treatment of genitourinary and allied disorders, and review articles, correspondence, and abstracts.

**Advice to authors** Papers for publication, which will be accepted on the understanding that they have not been and will not be published elsewhere and are subject to editorial revision, should be sent in duplicate to Dr A Mindel, Academic Department of Genitourinary Medicine, James Pringle House, Middlesex Hospital, London W1N 8AA. All authors must give signed consent to publication. Submitted papers must be accompanied by the following statement, signed by all the authors: "No paper resembling the enclosed article has been or will be published except in Genitourinary Medicine. We transfer all copyright ownership to Genitourinary Medicine." Manuscripts will only be acknowledged if a stamped addressed postcard or international reply coupon is enclosed. Rejected papers will not be returned. Figures will be returned if requested at the time of submission.

Full details of requirements for manuscripts in the Vancouver style (*Br Med J* 1982;284:1766-70) are given in *Uniform requirements for manuscripts submitted to biomedical journals*, available from the Publishing Manager, *British Medical Journal*, BMA House (50p post free). Briefly details are as follows:

(1) *Scripts (including correspondence and book reviews)* must be typewritten on one side of the paper in double spacing with ample margins. Two copies should be sent.

(2) *Each script* should include, in the following order: a brief summary (structured summaries are preferred), typed on a separate sheet, outlining the main observations and conclusions; the text divided into appropriate sections; acknowledgements; references; tables, each on a separate sheet; and legends for illustrations.

(3) *The title* of the paper should be as brief as possible.

(4) *The number of authors* should be kept to the minimum, and only their initials and family names used.

(5) *Only the institution(s)* where work was done by each author should be stated.

(6) *SI units* must be used. If old fashioned units are used, SI units should be given in parentheses or, for tables and figures, a conversion factor given as a footnote.

(7) *Only recognised abbreviations* should be used.

(8) *Acknowledgements* should be limited to workers whose courtesy or help extended beyond their paid work, and supporting organisations.

(9) *Figures* should be numbered in the order in which they are first mentioned in the text. Captions should be typed on a separate sheet. (*Diagrams:* use thick, white paper and insert lettering lightly in pencil. *Photographs:* should be marked lightly on the back with the author's name and indicating the top, and should not be attached by paper clips or pins. They should be trimmed to include only the relevant section (and will be reproduced 68 or 145 mm wide) to eliminate the need for reduction. Photomicrographs must have internal scale markers. Radiographs should be submitted as photographic prints, carefully prepared so that they bring out the exact point to be illustrated.

(10) *Tables* should be numbered, have titles, and be typed on separate sheets. Please avoid large tables and use the format which appears in current issues.

(11) *References* should be numbered consecutively the first time they are cited and identified by arabic numbers in the text, tables, and legends to figures. Authors must take full responsibility for the accuracy of their references, and the list should be kept as short as practicable. It should be in the order in which references are first mentioned, and should include (in the following order), *journals:* author's name and initials, title of paper, name of journal (in full or abbreviated according to the list in *Index Medicus*), year of publication, volume number, and first and last page numbers; *books:* author's name and initials, full title, edition, place of publication, publisher, and year of publication. When a chapter in a book is referred to, the name and initials of the author of the chapter, title of the chapter, "In:", name and initials of the editor, and "ed" should precede book title, etc as above. In references to journals or books, when there are seven or more authors the names of the first three should be given followed by "et al." Names of journals no longer published or not in *Index Medicus* should be given in full — for example, *British Journal of Venereal Diseases*.

**Proofs** Contributors receive one proof, and should read it carefully for printers' errors and check the tables, figures, legends, and any numerical, mathematical, or other scientific expressions. Alterations should be kept to a minimum.

**Reprints** A limited number of reprints may be ordered at cost from the Publishing Manager when the proofs are returned.

**Notice to subscribers** This *Journal* is published bimonthly. The annual subscription rates are £80.00 inland, £92.00 overseas, and \$147 in the USA. Subscribers may pay for their subscriptions by Access, Visa, or American Express by quoting on their orders the credit or charge card preferred, the appropriate personal account number, and the expiry date of the card. Orders should be sent to the Subscriptions Manager, *Genitourinary Medicine*, BMA House, Tavistock Square, London WC1H 9JR. Orders can also be placed locally through any leading subscription agent or bookseller. (For the convenience of readers in the USA, subscription orders, with or without payment, can be sent to: *British Medical Journal*, Box 560B, Kennebunkport, Maine 04046. All inquiries, however, including those regarding air mail rates and single copies already published, should be addressed to the publisher in London.) Second class postage paid, Rahway NJ Postmaster. Send address changes to: *Genitourinary Medicine* c/o Mercury Airfreight International Ltd Inc, 2323 Randolph Avenue, Avenel, NJ 07001, USA.

**Notice to advertisers** Applications for advertisement space and for rates should be addressed to the Advertisement Manager, *Genitourinary Medicine*, BMA House, Tavistock Square, London WC1H 9JR.

**Copyright** © 1990 by *Genitourinary Medicine*. This publication is copyright under the Berne Convention and the International Copyright Convention. All rights reserved. Apart from any relaxations permitted under national copyright laws, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior permission of the copyright owners. Permission is not, however, required to copy abstracts of papers or of articles on condition that a full reference to the source is shown. Multiple copying of the contents of the publication without permission is always illegal.

## CURRENT PUBLICATIONS

Selected titles from recent reports published worldwide are arranged in the following sections:

Gonorrhoea  
Chlamydia  
Candidiasis  
Pelvic inflammatory disease  
Non-specific genital infection  
Bacterial vaginosis  
Trichomoniasis  
Syphilis and other treponematoses  
Herpes simplex virus  
Human papillomavirus infection  
Cervical cytology and colposcopy  
Other sexually transmitted diseases  
Public health and social aspects  
Miscellaneous

### Gonorrhoea

**Oral ciprofloxacin versus ceftriaxone for the treatment of urethritis from resistant *Neisseria gonorrhoeae* in Zambia**

JP BRYAN, SK HIRA, W BRADY, N LUO, C MWALE, G MPOKO, R KRIEG, E SIWIWALIONDO, CREICHAART, C WATERS, PL PERINE, *Antimicrob Agents Chemother* 1990;34:819.

**Comparative study of cefuroxime axetil and procaine penicillin in the treatment of uncomplicated gonorrhoea**

GR KINGHORN, RC SOENCER, TK SMITH, PD WOOLEY, R PATEL, AJ ROBINSON, *Int J STD AIDS* 1990;1:285.

**Therapy for gonococcal infections: options in 1989**

JS MORAN, JM ZENILMAN, *Rev Infect Dis* 1990;12:S633.

**Antimicrobial susceptibility of *Neisseria gonorrhoeae* in Harare, Zimbabwe: relationship to serogroup**

PR MASON, L GWANZURA, AS LATIF, E MAROWA, *Sex Transm Dis* 1990;17:63.

**Cefotetan therapy for gonococcal urethritis and cervicitis**

RZ YOUSSEF, M MURRAY, B HOLMES, WJ MOGABGAB, *Sex Transm Dis* 1990;17:99.

**Vaccination against gonorrhoea: the potential protective effect of immunization with a synthetic peptide containing a conserved epitope of gonococcal membrane protein IB**

JE HECKELS, M VIRJI, CR TINSLEY, *Vaccine* 1990;8:225.

**Acquisition of  $\beta$ -lactamase and TetM-containing conjugative plasmids by phenotypically different strains of *Neisseria gonorrhoeae***

SJ SARAFIAN, CA GENCO, MC ROBERTS, JS KNAPP, *Sex Transm Dis* 1990;17:67.

**Piliation changes in transformation-defective gonococci**

J SWANSON, S MORRISON, O BARRERA, S HILL, *J Exp Med* 1990;171:2131.

**Use of the gen-probe PACE system for the detection of *Neisseria gonorrhoeae* in urogenital samples**

PA GRANATO, MR FRANZ, *Diag Microbiol Infect Dis* 1990;13:217.

### Chlamydia

**Treatment of *Chlamydia trachomatis* genital infection**

KE TOOMEY, RC BARNES, *Rev Infect Dis* 1990;12:S645.

**Prevalence of *Chlamydia trachomatis* infection in the Turkish female population**

A YILDIZ, H GUNER, S ROTA, R GURSOY, A ERDEM, *Gynecol Obstet Invest* 1990;29:282.

**Screening for *Chlamydia trachomatis* genital infection in young men from Stockholm**

S LARSSON, A-K RUDEN, S BYGDEMAN, *Int J STD AIDS* 1990;1:205.

**Improved pregnancy outcome following successful treatment of chlamydial infection**

I COHEN, JC VEILLE, BM CALKINS, *JAMA* 1990;263:3160.

**The association between *Chlamydia trachomatis* and ectopic pregnancy**

JM CHOW, ML YONEKURA, GA RICHWALD, S GREENLAND, *JAMA* 1990;263:3164.

**Sex, lives and chlamydia rates**

BB DAN, *JAMA* 1990;263:3191.

**Chlamydial infection—a female and/or male infertility factor?**

W EGGERTKRUSE, I GERHARD, H NAHER, W TILGEN, B RUNNEBAUM, *Fert Steril* 1990;53:1037.

**Variation in virulence among oculo-genital serovars of *Chlamydia trachomatis* in experimental genital tract infection**

JT ITO JR, JM LYONS, LP AIRO-BROWN, *Infect Immun* 1990;58:2021.

**A role in vivo for tumour necrosis factor alpha in host defense against *Chlamydia trachomatis***

DM WILLIAMS, DM MITCHELL MAGEE, LF BONEWALD, JG SMITH, CA BLEICKER, GI BYRNE, J SCHACHTER, *Infect Immun* 1990;58:1572.

**Severity of salpingitis in mice after primary and repeated inoculation with a human strain of *Chlamydia trachomatis***

M TUFFREY, F ALEXANDER, D TAYLOR-ROBINSON, *J Exp Pathol* 1990;71:401.

***Chlamydia trachomatis* infection of the human fallopian tube organ culture**

MD COOPER, J RAPP, C JEFFREY-WISEMAN, RC BARNES, DS STEPHENS, *J Gen Microbiol* 1990;136:1109.

**Identification and characterization of T helper cell epitopes of the major outer membrane protein of *Chlamydia trachomatis***

H SU, RP MORRISON, NG WATKINS, HD CALDWELL, *J Exp Med* 1190;172:203.

**Immunization against chlamydial genital infection in guinea pigs with UV-inactivated and viable chlamydiae administered by different routes**

RG RANK, BE BATTEIGER, LSF SODERBERG, *Infect Immun* 1990;58:2599.

**Evaluation of Syva enzyme immunoassay for detection of *Chlamydia trachomatis* in genital specimens**

CA GAYDOS, CA REICHAART, JM LONG, LE WELSH, TM NEUMANN, EW HOOK III, TC QUINN, *J Clin Microbiol* 1990;28:1541.

**Effect of endocervical specimen quality on detection of *Chlamydia trachomatis* and on the incidence of false-positive results with the chlamydiazyme method**

JA KELLOGG, JW SEIPLE, CL MURRAY, JS LEVISKY, *J Clin Microbiol* 1990;28:1108.

**Accuracy of *Chlamydia trachomatis* antigen detection methods in a low-prevalence population in a primary care setting**

PH GANN, JE HERRMANN, L CANDIB, RW HUDSON, *J Clin Microbiol* 1990;28:1580.

**A 2-year quantitative assessment of *Chlamydia trachomatis* in a sexually transmitted diseases clinic population by the Microtrak direct smear immunofluorescence test**

BJ THOMAS, MF OSBORN, PE MUNDAY, RT EVANS, D TAYLOR-ROBINSON, *Int J STD AIDS* 1990;1:264.

**Evaluation of a genus-specific monoclonal antibody in an amplified enzyme-linked immunoassay in the**

**detection of chlamydia in urine samples from men**

AJ JAWAD, G MANUEL, R MATTHEWS, R WISE, JC CLAY, *Sex Transm Dis* 1990;17:87.

**Use of polymerase chain reaction for detection of *Chlamydia trachomatis***

L ØSTERGAARD, S BIRKELAUND, G CHRISTIANSEN, *J Clin Microbiol* 1990;28:1254.

**Comparison of IDEIA III and cell culture for the detection of *Chlamydia trachomatis* in endocervical specimens**

WD LeBAR, H SCHUBINER, C JEMAL, BR HERSCHMAN, *J Clin Microbiol* 1990;28:1447.

**Comparison of an enzyme immunoassay (Ortho) with cell culture and immunofluorescence for the detection of genital chlamydial infection**

G MUMTAZ, GL RIDGWAY, AT NAYAGAM, AJ ROBINSON, *Int J STD AIDS* 1990;1:187.

**Comparison of *Pharmacia chlamydia* EIA, IDEIA and cell culture in the detection of urogenital chlamydial infection**

SM BYGDEMAN, P LIDBRINJ, M NAKHIAISOJA, U PARKHEDE, *Int J STD AIDS* 1990;1:199.

**Comparison of chemiluminescent DNA probe to cell culture for the screening of *Chlamydia trachomatis* in a gynecology clinic population**

LJ MERCER, DC TOBINSON, DF SAHM, MJ LAWRIE, SN HAJJ, *Obstet Gynecol* 1990;76:114.

**Confirmatory assay increases specificity of the Chlamydiazyme test for *Chlamydia trachomatis* infection of the cervix**

J MONCADA, J SCHACHTER, G BOLAN, J ENGELMAN, L HOWARD, I MUSHAHWAR, G RIDGWAY, G MUMTAZ, W STAMM, A CLARK, *J Clin Microbiol* 1990;28:1770.

---

**Candidiasis**

---

**Fluconazole levels in plasma and vaginal secretions of patients after a 150-milligram single oral dose and rate of eradication of infection in vaginal candidiasis**

ET HOUANG, O CHAPPATTE, D BYRNE, PV MACRAE, JE THORPE, *Antimicrob Agents Chemother* 1990;34:909.

**Evidence for a role for secreted aspartate proteinase of *Candida albicans* in vulvovaginal candidiasis**

F DeBERNARDIS, L AGATENS, IK ROSS, GW EMERSON, R LORENZINI, PA SULLIVAN, A CASSONE, *J Infect Dis* 1990;161:1276.

**Experimental pathogenicity and acid proteinase secretion of vaginal isolates of *Candida parapsilosis***

D DeBERNARDIS, L MORELLI, T CEDDIA, R LORENZINI, A CASSONE, *J Med Vet Mycol* 1990;28:125.

**Characterization of *Candida albicans* mannan-induced, mannan-specific delayed hypersensitivity suppressor cells**

RE GARNER, AM CHILDRESS, LG HUMAN, JE DOMER, *Infect Immun* 1990;58:2613.

**Comparison of candidacidal and candidastatic activities of human neutrophils**

PG SOHNLE, C COLLINS-LECH, *Infect Immun* 1990;58:2696.

---

**Pelvic inflammatory disease**

---

**Optimum therapy for acute pelvic inflammatory disease**

DODSON MG, *Drugs* 1990;39:511.

**Pelvic inflammatory disease: review of treatment options**

HB PETERSON, EI GALAID, JM ZENILMAN, *Rev Infect Dis* 1990;12:S656.

---

**Non-specific genital infection**

---

**Recent advances in non-gonococcal urethritis: pathogenesis, investigation and treatment**

PD WOOLLEY, *Int J STD AIDS* 1990;1:157.

---

**Bacterial vaginosis**

---

**Reproducibility of interpretation of Gram-stained vaginal smears for the diagnosis of bacterial vaginosis**

T MAZZULLI, AE SIMOR, DE LOW, *J Clin Microbiol* 1990;28:1506.

**Evaluation of the significance of *Mycoplasma hominis* and *Ureaplasma urealyticum* in female genital tract infection—a retrospective case note study**

SC CRAWSHAW, DI STOCKER, DL SUGRUE, MV HARAN, *Int J STD AIDS* 1990;1:191.

**Treatment of bacterial vaginosis in women with vaginal bleeding complications or discharge and harboring *Mobiluncus***

PG LARSSON, B BERGMAN, U FORSUM, C PAHLSON, *Gynecol Obstet Invest* 1990;29:296.

**Bacterial vaginosis—treatment with topical intravaginal clindamycin phosphate**

CH LIVENGOD, JL THOMASON, GB HILL, *Obstet Gynecol* 1990;76:118.

**Treatment of sexually transmitted vaginosis/vaginitis**

KG LOSSICK, *Rev Infect Dis* 1990;12:S665.

---

**Trichomoniasis**

---

**In vitro activity of fenticonazole on *Trichomonas vaginalis* and *Gardnerella vaginalis***

C FONTANA, E CANNARATA, M GRECO, S OLIVERI, *Curr Ther Res* 1990;48:44.

**Specific erythrocyte binding is an additional nutrient acquisition system for *Trichomonas vaginalis***

ML LEHKER, TH CHANG, DC DAILEY, JF ALDERETE, *J Exp Med* 1990;171:2165.

***Trichomonas vaginalis* require traces of oxygen and high concentration of carbon dioxide for optimal growth**

TA PAGET, D LLOYD, *Mol Biochem Parasitol* 1990;41:65.

**Difference in effect of dog seminal fluid and human seminal fluid and semen on in vitro survival of *Trichomonas vaginalis***

JJ DALY, JK SHERMAN, T HALEY, TL HOSSETLER, *Sex Transm Dis* 1990;17:106.

---

**Syphilis**

---

**Epidemiology of reported syphilis among US navy and marine corps personnel, 1985–1987**

ML DEMBERT, LA FINNEY, SW BERG, *Sex Transm Dis* 1990;17:95.

**Neurosyphilis developing during treatment of secondary syphilis with benzathine penicillin in a patient without serologic evidence of human immunodeficiency virus infection**

MJ DINUBILE, FJ COPARE, KM GEKOWSKI, *Am J Med* 1990;88:N45.

**Syphilis serology in human immunodeficiency virus-infected patients with symptomatic neurosyphilis: case report and review**

AG MATLOW, AR RACHLIS, *Rev Infect Dis* 1990;12:703.

**Prevalence of untreated syphilis veterans: a case for routine screening**

H EDELSTEIN, R KARP, JA GREEN, *Serodiag Immunother Infect Dis* 1990;4:121.

**Treatment of syphilis, 1989**

PN ZENKER, RT ROLFS, *Rev Infect Dis* 1990;12:590.

**Risk factors for syphilis: cocaine use and prostitution**

RT ROLFS, M GOLDBERG, RG SHARRAR, *Am J Public Health* 1990;80:853.

### Antibodies to HTLV-1-2, HIV-1 and HIV-2 in syphilitic patients

S GRAIFENBERGHI, D COLOMBRITA, *Eur J Epidemiol* 1990;6:201.

### Polymerase chain reaction and synthetic DNA probes: a means of distinguishing the causative agents of syphilis and yaws

GT NOORDHOEK, B WIELES, JJ van der SLUIS, JDA van ENBDEN, *Infect Immun* 1990;58:2011.

### A new attempt to distinguish serologically the subspecies of *Treponema pallidum* causing syphilis and yaws.

GT NOORDHOEK, A COCKAYNE, LM SCHOOLS, RH MELOEN, E STOLZ, JDA van EMDEN, *J Clin Microbiol* 1990;28:1600.

### Evaluation of the Captia enzyme immunoassays for detection of immunoglobulins G and M to *Treponema pallidum* in syphilis

J-C LEFEVRE, M-A BERTRAND, R BAURIAUD, *J Clin Microbiol* 1990;28:1704.

### An evaluation of oligoclonal banding and CSF IgG index in the diagnosis of neurosyphilis

HG JONES, N URQUHART, RG MATHIAS, SN BANNERJEE, *Sex Transm Dis* 1990;17:75.

---

## Herpes simplex virus

---

### The frequency of unrecognised type-2 herpes simplex virus infection among women: implications for the control of genital herpes

LA KOUTSKY, RL ASHLEY, KK HOLMES, CE STEVENS, CW CRITCHLOW, N KIVIAT, CM LIPINSKI, P WOLNER-HANSEN, L COREY, *Sex Transm Dis* 1990;17:90.

### Asymptomatic herpes simplex virus shedding from the genital tract whilst on suppressive doses of oral acyclovir

CA BOWMAN, PD WOOLLEY, S HERMAN, J CLARKE, GR KINGHORN, *Int J STD AIDS* 1990;1:174.

### Incidence of herpes simplex virus type-1 and type-2 from patients with primary (first attack) genital herpes in Sheffield

PD WOOLLEY, G KUDESIA, *Int J STD AIDS* 1990;1:184.

### Clinical and laboratory study of first episode genital herpes in Singapore

WK CHEONG, T THIRUMOORTHY, S DORAISINGHAM, AE LING, *Int J STD AIDS* 1990;1:195.

### A herpes simplex skin ulcer in a patient with AIDS—an unusual presentation

PJ HORNER, JRW HARRIS, *Int J STD AIDS* 1990;1:288.

### Rapid detection of herpes simplex virus in clinical samples by flow cytometry after amplification in tissue culture

J MONCADA, J SCHACHTER, G BOLAN, J ENGELMAN, L HOWARD, I MUSAHWAR, G RIDGWAY, G MUMTAZ, W STAMM, A CLARK, *J Clin Microbiol* 1990;28:1864.

### From virus to vaccine: recombinant mammalian cell lines as substrates for the production of herpes simplex virus vaccines

LA LASKY, *J Med Virol* 1990;31:59.

### Recurrent genital herpes in the guinea pig augmented by ultraviolet irradiation: effects of treatment with acyclovir

LR STANBERRY, CJ HARRISON, FJ BRAVO, F CHILDS, AL REECE, DI BERNSTEIN, *Antivir Res* 1990;13:227.

### Capsaicin interferes with the centrifugal spread of virus in primary and recurrent genital herpes simplex virus infections

LR STANBERRY, *J Infect Dis* 1990;162:29.

### Specific inhibitors of herpes simplex virus thymidine kinase diminish reactivation of latent virus from explanted murine ganglia

DA LEIB, KL RUFFNER, C HILDEBRAND, PA SCHAFER, GE WRIGHT, DM COEN, *Antimicrob Agents Chemother* 1990;34:1285.

### Nucleoside metabolism in herpes simplex virus-infected cells following treatment with interferon and acyclovir, a possible mechanism of synergistic antiviral activity

WJ O'BRIEN, EC COE, JL TAYLOR, *Antimicrob Agents Chemother* 1990;34:1178.

### Herpes simplex virus activates expression of a cellular gene by specific binding to the cell surface

VG PRESTON, *Virology* 1990;176:474.

### Alterations in the cellular phenotype induced by herpes simplex viruses

DA GALLOWAY, JK McDUGALL, *J Med Virol* 1990;31:36.

### Genomic variation of herpes simplex virus type 2 isolates analysed by hybridization after electrophoresis from polyacrylamide gels

V HUKKANEN, T ZIEGLER, L KINNUNEN, H HIRVONEN, P AUVINEN, T HOVI, *Mol Cell Probe* 1990;4:81.

### Nucleotide sequences responsible for the inability of a herpes simplex virus type 2 strain to grow in human lymphocytes are identical to those responsible for its inability to grow in mouse tissues following ocular infection

RN LAUSCH, KC YEUNG, JZ MILLER, JE OAKES, *Virology* 1990;176:319.

### The repressing and enhancing functions of the herpes simplex virus regulatory protein ICP27 map to C-terminal regions and are required to modulate viral gene expression very early in infections

L McMAHON, PA SCHAFER, *J Virol* 1990;64:3471.

### Inhibition of herpes simplex virus DNA polymerase by diphosphates of acyclic phosphonylmethoxyalkyl nucleotide analogues

A MERTA, I VOTRUBA, I ROSENBERG, M OTMAR, H HREBAECKY, R BERNAERTS, A HOLY, *Antivir Res* 1990;13:209.

### Herpes simplex virus glycoprotein D is recognized as antigen by CD4 and CD8 T lymphocytes from infected mice: characterization of T cell clones

RM JOHNSON, DW LANCKI, FW FITCH, PG SPEAR, *J Immunol* 1990;145:702.

### HSV-2-induced tumorigenicity in HPV16-immortalized human genital keratinocytes

JADIPAULO, CD WOODWORTH, NC POPESCU, DL KOVAL, JV LOPEZ, J DONIGER, *Virology* 1990;177:77.

### Mucosal and systemic antiviral antibodies in mice inoculated intravaginally with herpes simplex virus type-2

MR McDERMOTT, LJ BRAIS, MJ EVELEGH, *J Gen Virol* 1990;71:1497.

---

## Human papillomavirus infection

---

### Papillomaviruses and human cancer

MJ ARENDS, AH WYLLIE, CC BIRD, *Hum Pathol* 1990;21:686.

### Association of oral contraceptive use and human papillomaviruses in invasive cervical cancers

A HILDESHEIM, WC REEVES, LA BRINTON, C LAVERY, M BRENES, ME DE LA GUARDIA, J GODOY, WERAWLS, *Int J Cancer* 1990;45:860.

### Oral contraceptive use, human papillomavirus infection, and risk of early cytological abnormalities of the cervix

MH SCHIFFMAN, RJ KURMAN, W BARNES, L LANNOM, K MALLEY, LA BRINTON, G DELGADO, S JONES, JG TEHABO, *et al. Cancer Res* 1990;50:4670.

### Human papillomaviruses in anogenital warts in children: typing by in-situ hybridisation

AF PADEL, VA VENNING, MF EVANS, AM QUANTILL, KA FLEMING, *Br Med J* 1990;300:491.

**Condylomata acuminata in children**  
AP ORANJE, FB DE WAARD-VAN DER SPEK, VD VUZEVSKE, RAC BILO, *Int J STD AIDS* 1990;1:250.

**Evidence of prevalent genital-type human-papillomavirus infections in adults and children**  
SA JENISON, ZP YU, JM VALENTINE, LA JOUTSKYM, AE CHRISTIANSEN, AM BECKMANN, DA GALLOWAY, *J Infect Dis* 1990;162:60.

**Anal intraepithelial neoplasia and anal papillomavirus infection among homosexual males with group IV HIV disease**  
JM PALEFSKY, J GONZALES, RM GREENBLATT, DK AHN, H HOLLANDER, *JAMA* 1990; 263:2911.

**Detection of human papillomavirus in nongenital Bowen's disease by in situ DNA hybridization**  
AH KETTLER, M RUTLEDGE, JA TSCHEN, G BUFFONE, *Arch Derm* 1990;126:777.

**Lichen sclerosis, invasive squamous cell carcinoma and human papillomavirus**  
SM NEILL, M LESSANALEIBOWITCH, M PELISSE, M MOYALBARRACCO, *Am J Obstet Gynecol* 1990;162:1633.

**Management of intrameatal warts in men**  
JG MCKENNA, A McMILLAN, *Int J STD AIDS* 1990;1:259.

**Management of genital infection caused by human papillomavirus**  
SJ KRAUS, KM STONE, *Rev Infect Dis* 1990;12:S620.

**Effect of perilesional injection of  $\alpha$ -interferon on cervical intraepithelial neoplasia and associated human papillomavirus infection**  
AM DUNHAM, JC MCCARTNEY, DJ McCANCE, RW TAYLOR, *J R Soc Med* 1990;83:493.

**A randomized trial of combination therapy with intralesional interferon-alpha-2b and podophyllin versus podophyllin alone for the therapy of anogenital warts**  
JM DOUGLAS, LJ ERON, FN JUDSON, M ROGERS, MB ADLER, E TAYLOR, D TANNER, E PEETS, *J Infect Dis* 1990;162:52.

**Double-blind randomized clinical trial of self-administered podofilox solution versus vehicle in the treatment of genital warts**  
BJ McMAHON, K WAINWRIGHT, L BULKOW, AJ PARKINSON, M LINDENBAUM, R WAINWRIGHT, C HELMINIAK, *Am J Med* 1990;88:465.

**An immunohistological study of condylomata acuminata**  
A McMILLAN, PE BISHOP, S FLETCHER, *Histopathol* 1990;17:45.

**Vaginal condylomata acuminata after McIndoe neovagina creation**  
AF HANEY, *Sex Transm Dis* 1990;17:102.

**Human papillomavirus detection in cervical lesions nondiagnostic for cervical intraepithelial neoplasia—correlation with Papanicolaou smear, colposcopy and occurrence of cervical intraepithelial neoplasia**  
GJ NUOVO, JS BLANCO, S LEIPZIG, D SMITH, *Obstet Gynecol* 1990;75:1006.

**Human papillomavirus DNA in unselected pregnant and non-pregnant women**  
VRX SOARES, P NIEMINEN, M AHO, E VESTERINEN, A VAHERI, J PAAVONEN, *Int J STD AIDS* 1990;1:276.

**Detection of human papillomavirus 16 and 18 DNA in cervical dysplasia and cervical carcinoma by in situ hybridization**  
K FUJITA, H TANAKA, A MATSUHISA, T MATSUI, M NIIMURA, T OHNO, *Acta Histochem Cytochem* 1990;23:113.

**Human papillomavirus infection of the uterine cervix analyzed by non-isotopic in situ hybridization**  
Y HARA, S TUCHIDA, T NAKAMURA, K YAMAMOTO, S YAMAGATA, T SUGAWA, Y MIN-EKAWA, *J Med Virol* 1990;31:120.

**Human papillomavirus DNA in genital tract lesions histologically negative for condylomata: analysis by in situ, Southern blot hybridization and the polymerase chain reaction**  
GJ NUOVO, *Am J Surg Pathol* 1990;14:643.

**Molecular cloning of a novel human papillomavirus (type 58) from an invasive cervical carcinoma**  
T MATSUJURA, M SUGASE, *Virology* 1990;177:833.

**Influence of human papillomavirus on DNA ploidy determination in genital condylomas**  
MS CHACHO, E EPPICH, R WERSTO, LG KOSS, *Cancer* 1990;65:2291.

**Association between poor prognosis in early-stage invasive cervical carcinomas and non-detection of HPV DNA**  
G RIOU, M FAVRE, D JEANNEL, J BOURHIS, V LE DOUSSAL, G ORTH, *Lancet* 1990;335:1171.

**Antibody-mediated neutralization in vivo of infectious papillomaviruses**  
ND CHRISTENSEN, JW KREIDER, *J Virol* 1990;64:3151.

**Human cervical and foreskin epithelial cells immortalized by human papillomavirus DNAs exhibits dysplastic differentiation in vivo**  
CD WOODWORTH, S WAGGONER, W BARNES, MH STOLER, JA DIPALO, *Cancer Res* 1990;50:3709.

**Growth regulating functions of human papillomavirus early gene products in cervical cancer cells acting dominant over enhanced epidermal growth factor receptor expression**  
MV DOEBERITZ, L GISSMANN, HZ HAUSEN, *Cancer Res* 1990;50:3730.

**Production and characterization of a monoclonal antibody to human papillomavirus type-16 using recombinant vaccinia virus**  
GL SMITH, G HIGGINS, M STANLEY, AC MINSON, *J Clin Pathol* 1990;43:488.

**Infectious cycle of human papillomavirus type 11 in human foreskin xenografts in nude mice**  
MH STOLER, A WHITBECK, SM WOLINSKY, TR BROKER, LT CHOW, MK HOWETT, JW KREIDER, *J Virol* 1990;64:3310.

**Transforming activity of E5a protein of human papillomavirus type 6 in NIH 3T3 and C127 cells**  
SL CHEN, P MOUNTS, *J Virol* 1990;64:3226.

**HPV 16 E7 functions at the G1-phase to S-phase transition in the cell cycle**  
L BANKS, SC BARNETT, T CROOK, *Oncogene* 1990;5:833.

**Uniformity of the splicing pattern of the E6/E7 transcripts in human papillomavirus type-16-transformed human fibroblasts, human cervical premalignant lesions and carcinomas**  
MTE CORNELISSEN, HL SMITS, MA BRIET, JG VANDENTWEEL, APHB STRUYK, J VANDERNOORDS, J TERSCHEGGET, *J Gen Virol* 1990;71:1243.

**Analysis of human papillomavirus type-16 E6-E7 transcription in cervical carcinomas and normal cervical epithelium using the polymerase chain reaction**  
MA JOHNSON, PI BLOMFELD, IS BEVAN, CBJ WOODMAN, LS YOUNG, *J Gen Virol* 1990;71:1473.

---

## Cervical cytology and colposcopy

---

**Cervical cytology**  
E HUDSON, *Br Med J* 1990;300:1353.

**Loop diathermy excision of the cervical transformation zone in patients with abnormal cervical smears**  
DM LUESLEY, J CULLIMORE, QWE REDMAN, FG LAWTON, JM EMENS, TP ROLLASON, DR WILLIAMS, EJ BUXTON, *Br Med J* 1990;300:1690.

**Colposcopic diagnosis and treatment of cervical dysplasia at a single clinic visit**

MA BIGRIGG, BW CODLING, P PEARSON, MD READ, GR SWINGLER, *Lancet* 1990;336:229.

#### **Treatment of cervical intraepithelial neoplasia—experience with the low-voltage diathermy loop**

LM ADLER, JS LOUGHLIN, CJ MORIN, RV HANING, *Am J Obstet Gynecol* 1990;162:1272.

#### **Colposcopy and computer graphics**

HE FERGERI, *Am J Obstet Gynecol* 1990;162:1347.

#### **Risk factors for in-situ cervical cancer—results from a case-control study**

CJ JONES, LA BRINTON, RF HAMMAN, PD STOLLEY, HF LEHMAN, RS LEVINE, K MALLIN, *Cancer Res* 1990;50:3657.

#### **Smoking and cervical cancer—current status—a review**

W WINKELSTEIN, *Am J Epidemiol* 1990;131:945.

#### **Smoking and cervical cancer—current status**

LA BRINTON, *Am J Epidemiol* 1990;131:958.

#### **Cervical cancers diagnosed after negative results on cervical cytology: perspective in the 1980s**

H MITCHELL, G MEDLEY, G GILES, *Br Med J* 1990;300:1622.

#### **Current problems in the pathology of intra-epithelial lesions of the uterine cervix**

H FOZ, CH BUCKLEY, *Histopathol* 1990;17:1.

#### **No effect of intralesional injection of interferon on moderate cervical intraepithelial neoplasia**

L FROST, K SKAJJAA, LE HVIDMAN, SJ FAY, PM LARSEN, *Br J Obstet Gynaecol* 1990;97:626.

### **Other sexually transmitted diseases**

#### **Cytomegalovirus infection in women attending a sexually transmitted disease clinic**

AC COLLIER, HH HANDSFIELD, PL ROBERTS, T DEROVEN, JD MEYERS, L LEACH, VL MURPHY, M VERDON, L COREY, *J Infect Dis* 1990;162:46.

#### **Antimicrobial susceptibility of *Haemophilus ducreyi***

Y DANGOR, RC BALLARD, SD MILLER, HJ KOORNHOF, *Antimicrob Agents Chemother* 1990;34:1303.

#### **Treatment of chancroid**

Y DANGOR, RC BALLARD, SD MILLER, HJ KOORNHOF, *Antimicrob Agents Chemother* 1990;34:1308.

#### **Treatment of chancroid, 1989**

GP SCHMID, *Rev Infect Dis* 1990;12:S580.

#### **Rapid control of a chancroid outbreak—implications for Canada**

PG JESSAMINE, RC BRUNHAM, *Can Med Assoc J* 1990;142:1081.

#### **Soluble interleukin-2 receptors in serum and urine of patients with chancroid and their response to therapy**

D ABECK, HC KORTING, R ZABA, Y DANGOR, G FEHLER, RC BALLARD, *Int J STD AIDS* 1990;1:282.

#### **Treatment of asymptomatic amoebiasis in homosexual men: clinical trials with metronidazole, tinidazole and diloxanide furoate**

K THOREN, C HAKANSSON, T BERGSTROM, G JOHANISSON, G NORKRANS, *Sex Transm Dis* 1990;17:72.

#### **Nosocomial outbreak of scabies associated with Norwegian scabies in an AIDS patient**

G ROSTAMI, TB SORG, *Int J STD AIDS* 1990;1:207.

### **Public health and social aspects**

#### **High risk STD/HIV behavior among college students**

NE MacDONALD, GA WELLS, WA FISHER, WK WARREN, MA KING, J-AA DOHERTY, WR BOWIE, *JAMA* 1990;263:3155.

### **Miscellaneous**

#### **Sexual assault and sexually transmitted diseases: detection and management in adults and children**

SK SCHWARCZ, WL WHITTINGTON, *Rev Infect Dis* 1990;12:S682.

#### **Male prostitution and sexually transmitted disease**

RJ HILLMAN, D TOMLINSON, D TAYLOR-ROBINSON, JRW HARRIS, *Int J STD AIDS* 1990;1:245.

#### **Self-medication by women attending a genitourinary clinic**

JM RUSSELL, SE BARTON, AG LAWRENCE, *Int J STD AIDS* 1990;1:276.

#### **Sexually transmitted diseases in lesbians**

A EDWARDS, RN THIN, *Int J STD AIDS* 1990;1:1278.

#### **Sexually transmitted diseases among patients seeking HIV and antibody test for AIDS**

KC MOHNANTY, *Int J STD AIDS* 1990;1:207.

#### **Seroprevalence of human lymphotropic-T virus type-I or type-II in sexually transmitted disease clinic patients in the USA**

RF KHABBAZ, JM DOUGLAS, FN JUDSON, RA SPIEGAL, ME STLOUIS, W WHITTINGTON, TM HARTLEY, M LAIRMORE, JE KAPLAN, *J Infect Dis* 1990;162:241.

#### **Sexual transmission efficiency of hepatitis B virus and human immunodeficiency virus among homosexual men**

LA KINGSLEY, CR RINALDO JR, DW LYTER, RO VALDISERRI, SH BELLE, M HO, *JAMA* 1990;264:230.

#### **History of physical and sexual abuse in women with chronic pelvic pain**

LD JAMES, LL DARKE, FM STAMPLER, BD NALIBOFF, *Obstet Gynecol* 1990;76:92.

#### **Secretory immune responses in mouse vaginal fluid after pelvic parenteral or vaginal immunization**

MA THAPAR, EL PARR, MB PARR, *Immunol* 1990;70:121.

#### **Disseminated histoplasmosis presenting as a penile ulcer**

P JAYALAKSHMI, KL GOH, TS SOO-HOO, A DAUD, *Aust NZ J Med* 1990;20:175.

#### **Streptococcus pneumoniae of the female genital tract and in the newborn child**

H WESTH, L SKIBSTED, B KORNER, *Rev Infect Dis* 1990;12:416.

#### **Phthirus pubis infestation of the scalp: report of three cases**

S SINGH, N SINGH, JCS RAY, S ROY, SP GARG, *Rev Infect Dis* 1990;12:560.

#### **Development of melanosis of uterine cervix after cryotherapy for epithelial dysplasia: a case report and brief review of the literature on pigmented lesions of the cervix**

PHYTIROHLOU, J DOMINGO, *Am J Clin Pathol* 1990;93:802.

#### **Methanogenic bacteria in human vaginal samples**

N BELAY, B MUKHOPADHYAY, E CONWAY de MACARIO, R GALASK, L DANIELS, *J Clin Microbiol* 1990;28:1666.

#### **The MAGIC syndrome (Mouth and genital ulcers with inflamed cartilage)**

RL ORME, JJ NORLUND, L BARICH, T BROWN, *Arch Dermatol* 1990;126:940.

#### **Acquired lymphangioma of the vulva: palliative treatment by means of laser vaporization carbon dioxide**

M LANDTHALER, V HOHENLEUTNER, O BRAUN-FALCO, *Arch Dermatol* 1990;126:967.

#### **Ciprofloxacin-induced photosensitivity—in vitro and in vivo studies**

J FERGUSON, BE JOHNSON, *Br J Dermatol* 1990;123:9.

#### **Virus leakage through natural membrane condoms**

CD LYTLE, PG CATNEY, S VOHRA, WH CYR, LE BOCKSTAHLER, *Sex Transm Dis* 1990;17:58.

#### **Evaluation of the virus permeability of a new condom for women**

WL DREW, M BLAIR, RC MINER, M CONANT, *Sex Transm Dis* 1990;17:110.

